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STRUCTURE FILE UPDATES: 30 JUN 2010 HIGHEST RN 1228750-08-0  
 DICTIONARY FILE UPDATES: 30 JUN 2010 HIGHEST RN 1228750-08-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

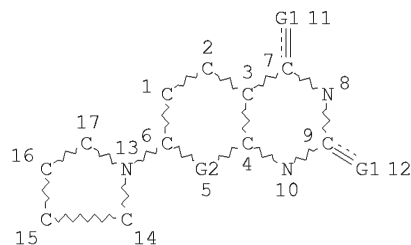
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d que sta l5  
 L3 STR



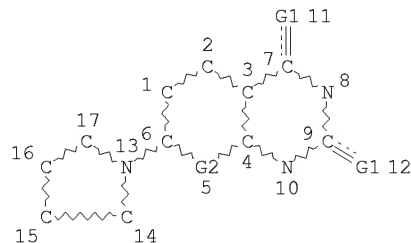
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 VAR G2=C/N  
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 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE  
 L5 1668 SEA FILE=REGISTRY SSS FUL L3

100.0% PROCESSED 7786 ITERATIONS 1668 ANSWERS  
 SEARCH TIME: 00.00.01

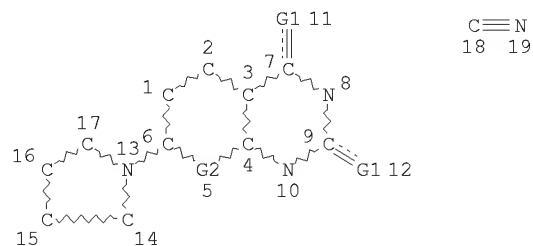
=> d que sta l13  
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 VAR G2=C/N  
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 DEFAULT MLEVEL IS ATOM  
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GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE  
 L5 1668 SEA FILE=REGISTRY SSS FUL L3  
 L11 STR



VAR G1=O/S  
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 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

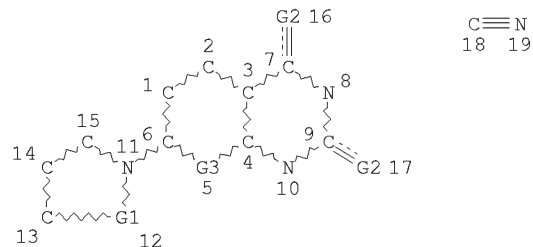
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STEREO ATTRIBUTES: NONE  
 L13 233 SEA FILE=REGISTRY SUB=L5 SSS FUL L11

100.0% PROCESSED 233 ITERATIONS  
 SEARCH TIME: 00.00.01

233 ANSWERS

=> d que sta l26  
 L24 STR



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 VAR G3=C/N  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE  
 L26 265 SEA FILE=REGISTRY SSS FUL L24

100.0% PROCESSED 1481 ITERATIONS

265 ANSWERS

SEARCH TIME: 00.00.01

=> b zcap  
FILE 'ZCAPLUS' ENTERED AT 13:45:19 ON 01 JUL 2010  
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FILE COVERS 1907 - 1 Jul 2010 VOL 153 ISS 1  
FILE LAST UPDATED: 30 Jun 2010 (20100630/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2010  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2010

ZCaplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

CAS Information Use Policies apply and are available at:

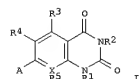
<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitrn fhitrn 130 tot

L30 ANSWER 1 OF 1 SCAPLUS COPYRIGHT 2010 ACS ON STN  
 AN 2005:472550 SCAPLUS  
 DN 143:26626  
 TI Preparation of aminoquinazolidinedione derivatives as antibacterials.  
 IN Ellsworth, Edmund Lee; Hoyer, Denton Wade; Hutchings, Kim Marie; Kendall, Jackie Diane; Murphy, Sean Timothy; Starr, Jeremy Tyson; Tran, Tuan Phong  
 PA Warner-Lambert Company LLC, USA  
 SO PCT Int. Appl., 226 pp.  
 COEN: PFXKX2  
 DT Patent  
 LA English  
 FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FI WO-2005049605	A1	20050602	2004WO-IB0003645*	20041105
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, ME, NA, SD, SL, SE, TG, UG, ZM, ZW, AG, AS, BY, EG, KE, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GG, GW, ML, MR, NE, GN, TD, TG				
CA-----2546339	A1	20050602	2004CA-002546339	20041105
EP-----1687296	A1	20060809	2004EP-000798793	20041105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LL, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, SE, HU, PL, SK, IS				
BR-----2004016708	A	20070116	2004BR-000016708	20041105
JP-----2007511597	T	20070510	2006JP-000540639	20041105
MX-----2006005550	A	20060817	2006MX-000005550	20060516
US-----20070191333	A1	20070816	2007US-000580088	20070227
PRAI 2003US-00523072P	P	20031118		
2004US-006442P	P	20040902		
2004WO-IB0003645	W	20041105		
OS CASREACT 143:26626; MARPAT 143:26626				



AB Title compds. [I; A = specified (fused) cyanoethylaminopyrrolidinyl, etc.; X = N, C; R1 = alkyl, cycloalkyl, haloalkyl, heterocycloalkyl, aryl, heteroaryl, cycloalkylalkyl; R2 = H, H2C, NHP(O)(OH)2, alkylamino, cycloalkylamino, arylamino, heteroarylamino, etc.; R3-R5 = H, halo, amino, alkyl, haloalkyl, alkoxy, haloalkoxy, cyano; R1R5 = atoms to form a 5-6 membered (substituted) ring], were prepared Thus, 3-amino-3-pyrrolidin-3-ylpropionitrile, 3-amino-1-cyclopropyl-6,7-difluoro-8-methyl-1H-quinazolin-2,4-dione, and 1,1,3,3-tetramethylguanidine were heated together at 90° overnight to give 37a 3-amino-3-[1-(1-cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)pyrrolidin-3-yl]propionitrile. The latter showed a min. inhibitory concentration of 2 µg/mL against H. influenzae HI-3542

II 852653-45-3P 852653-46-4P 852653-47-5P  
 852653-48-6P 852653-49-7P 852653-50-0P  
 852653-51-1P 852653-52-2P 852653-53-3P  
 852653-54-4P 852653-55-5P 852653-56-6P  
 852653-57-7P 852653-58-8P 852653-59-9P  
 852653-60-2P 852653-61-3P 852653-62-4P  
 852653-63-5P 852653-64-6P 852653-65-7P

L30 ANSWER 1 OF 1 SCAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

852653-66-8P	852653-67-9P	852653-68-0P
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852653-72-6P	852653-73-7P	852653-74-8P
852653-75-9P	852653-76-0P	852653-77-1P
852653-78-2P	852653-79-3P	852653-80-6P
852653-81-7P	852653-82-8P	852653-83-9P
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

L30 ANSWER 1 OF 1 SCAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

(drug candidate; prepn. of aminoquinazolidinediones as antibacterials)

II 852656-26-9 852656-27-0 852656-28-1  
 852656-29-2 852656-30-5 852656-31-6  
 852656-32-7 852656-33-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(drug candidate; preparation of aminoquinazolidinediones as antibacterials)

II 852656-00-9P 852656-01-0P 852656-03-2P  
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 852656-07-6P 852656-08-7P 852656-09-8P  
 852656-10-1P 852656-11-2P 852656-12-3P

852656-13-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminoquinazolidinediones as antibacterials)

II 852656-18-9P 852656-19-0P 852656-20-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

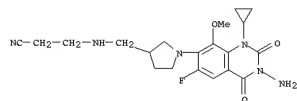
(preparation of aminoquinazolidinediones as antibacterials)

II 852653-45-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of aminoquinazolidinediones as antibacterials)

RN 852653-45-3 SCAPLUS  
 CN Propanetrinitrile, 3-[[[1-(3-amino-1-cyclopropyl-6-fluoro-1,2,3,4-tetrahydro-8-methoxy-2,4-dioxo-7-quinazolinyl)-3-pyrrolidinyl]methyl]amino]- (CA INDEX NAME)

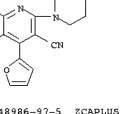


RE CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d bib abs hitstr 133 tot

AB The invention is related to the preparation of title compds. I [Q = O, S, NH and derivs.; Y = CO, CS, SO, SO<sub>2</sub>, CH<sub>2</sub> and derivs., C(NH<sub>2</sub>) and derivs.; R<sub>1</sub> = H, CN, (un)substituted cycvylalkyl, (hetero)aryl, etc.; R<sub>2</sub> = CN, (un)substituted aminoalkyl, heterocycvylalkyl, heterobicycloalkyl, heteroaryl; R<sub>5</sub>, R<sub>7</sub> = independently H, NH<sub>2</sub>, OH, (un)substituted alkyl, (hetero)arylalkyl, etc.; or R<sub>5</sub> = absent when the N on which R<sub>5</sub> is attached forms part of a double bond; R<sub>12</sub> = (un)substituted Ph.

CN1CCCC1c2nc3c(nc(=O)n(C)c3=O)C(c4ccc(Cl)cc4C#N)=C2[illegible]

L33 ANSWER 2 OF 4 ZCAPLUS COPYRIGHT 2010 ACS ON STN  
 AN 2007:1034380 ZCAPLUS  
 DI 149:288739  
 TT Indexes and biological evaluation of pyrido[2,3-d]pyrimidine as  
 antitumor effect  
 AU Elissa, A. M. F.; Elz El-Arab, E. M.; Farag, A. M.; Monartram, H. N.  
 CS Chemistry Department, Faculty of Science, Benna University, Egypt  
 SO Egyptian Journal of Chemistry (2006), 49(6), 761-774  
 CODEN: EJOJCA3; ISSN: 0449-2285  
 PB National Education and Documentation Centre  
 DT Journal  
 LA English  
 CS CASREACT 149:288739  
 AB 6-amino-2,5-dicyano-4-(R-1,2-dihydropyridine-2-thione) (R = H, furan-2-yl,  
 thien-2-yl, 3,4-(MeO)2C6H3) were used for the synthesis of diverse  
 pyridopyrimidine derivs. of anticipated medicinal application,  
 particularly their antitumor effect. The pyrido[2,3-d]pyrimidine ring  
 system has been the subject of numerous studies because of its structural  
 similarity to folic acid.  
 IT 1048986-95-3P 1048986-97-5P  
 PI: PNC (Pharmacological activity); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation)  
 (synthesis and evaluation of pyrido[2,3-d]pyrimidinecarbonitriles for  
 antitumor activity)  
 PN 1048986-95-3 ZCAPLUS  
 CN Pyrido[2,3-d]pyrimidine-6-carbonitrile,  
 5-(2-Euranyl)-1,2,3,4-tetrahydro-7-(1-piperidinyl)-2,4-dithioxo- (CA  
 INDEX NAME)  


The chemical structure shows a fused pyrido[2,3-d]pyrimidine ring system. The pyrimidine ring has a nitrile group (-C#N) at position 6 and a sulfur atom at position 2. The pyridine ring has a sulfur atom at position 4. The pyrimidine ring is substituted with a 2-euranyl group at position 5 and a 1-piperidinyl group at position 7. The pyridine ring is substituted with a 1-piperidinyl group at position 4.

PN 1048986-97-5 ZCAPLUS  
 CN Pyrido[2,3-d]pyrimidine-6-carbonitrile,  
 5-(3,4-dimethoxyphenyl)-1,2,3,4-tetrahydro-7-(1-piperidinyl)-2,4-dithioxo- (CA  
 INDEX NAME)

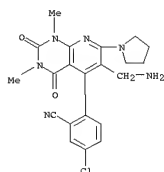
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OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

Chemical structures of compounds I and II are shown. Structure I is a pyrimidine derivative with substituents R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, and R<sup>7</sup>. Structure II is a pyrimidine derivative with substituents Cl, Cl, Me, NH<sub>2</sub>, and NH<sub>2</sub>.

AB Pyrido[2,3-d]pyrimidine-2,4-diones and related compds. (shown as I; variables defined below; e.g. 7-amino-6-aminomethyl-5-(2,4-dichlorophenyl)-1,3-dimethyl-1H-pyrido[2,3-d]pyrimidine-2,4-dione trifluoroacetate (free

L33 ANSWER 3 OF 4 ZCAPLUS COPYRIGHT 2010 ACS on STN (Continued)  
 base shown as II)], pharmaceutical compns., kits and methods are provided  
 for inhibiting DPP-IV and other 89 proteases. Although the methods of  
 prep. are not claimed, preps. and/or characterization data for .apprx.50  
 examples of I are included. For example, II was prep. by cyclizing  
 2-(2,4-dichlorobenzylidene)malononitrile (prep. from  
 2,4-dichlorobenzaldehyde and malononitrile) with  
 6-amino-1,3-dimethyluracil followed by rehn. with BH3-THF and  
 acidification with TFA. For I: W = CH3 and N; X = CH4 and N; Y = CO, CS,  
 SO, SO2, CR6R6\* and C:NR6; Z = CO, CS, SO, SO2, and C:NR6; R1 =  
 (C1-10)alkyl, (C3-12)cycloalkyl, hetero(C3-12)cycloalkyl,  
 aryl(C1-10)alkyl, heteroaryl(C3-5)alkyl, et al.; R2 = amino(C1-6)alkyl,  
 hetero(C3-12)cycloalkyl, hetero(C4-12)bicycloalkyl, heteroaryl, and cyano;  
 R5 and R7 = H, halo(C1-10)alkyl, amino, nitro, thio, sulfonamide,  
 (C1-10)alkyl, (C3-12)cycloalkyl, et al.; addnl. details including provisos  
 are given in the claims. Comps. I were tested according to assays for  
 protease inhibition and obsd. to exhibit selective DPP-IV inhibitory  
 activity. For example, they inhibit DPP-IV activity at concns. that are  
 at least 50 fold less than those concns. required to produce an equiactive  
 inhibition of protease activity for FAPs. The apparent inhibition  
 constns. (Ki) for compds. of the invention, against DPP-IV, were  
 .apprx.10-9 M to .apprx.10-5 M.  
 873935-46-7P, 2-[6-(aminomethyl)-1,3-dimethyl-2,4-dioxo-7-  
 (pyrrolidin-1-yl)-1,2,3,4-tetrahydropyrido[2,3-d]pyrimidin-5-yl]-5-  
 chlorobenzonitrile  
 RU: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (drug candidate; preparation of pyrido[2,3-d]pyrimidine-2,4-diones and  
 related compds. as selective dipeptidyl peptidase inhibitors)  
 RN 873935-46-7 ZCAPLUS  
 CN Benzotriazole, 2-[6-(aminomethyl)-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-  
 7-(1-pyrrolidinyl)pyrido[2,3-d]pyrimidin-5-yl]-5-chloro- (CA INDEX NAME)

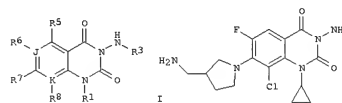


OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L33 ANSWER 4 OF 4 ZCAPLUS COPYRIGHT 2010 ACS on STN  
 DN 2001:545673 ZCAPLUS  
 135:122511  
 TI Preparation of 3-aminoquinazoline-2,4-dione antibacterial agents  
 IN Bird, Paul; Ellisworth, Edmund Lee; Nguyen, Dai Quoc; Sanchez, Joseph  
 Peter; Showalter, Howard Daniel Hollis; Singh, Rajeshwar; Stier, Michael  
 Andrew; Tran, Tuan Phong; Watson, Brian Morgan; Yip, Judy  
 PA Warner-Lambert Company, USA  
 SO PCT Int. Appl., 291 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

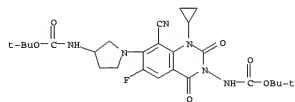
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WO-2001053273	A1	20010726	2000WO-US0033656	20001212 <--
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FW: GH, GM, KE, LS, MW, ME, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, CA, CN, GW, ML, MR, NE, SN, TD, TG				
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HU-2002004101	A3	20040528		
JP-2003520277	T	20030702	2001JP-000553275	20001212 <--
EE-2002000412	A	20030105	2002EE-000000412	20001212 <--
AU-783078	B2	20050922	2001AU-000020899	20001212 <--
AT-398110	T	20080715	2000AT-000984246	20001212 <--
ES-2304992	T3	20081101	2000ES-000984246	20001212 <--
IN-200200775	A	20050304	2002IN-000000775	20020612 <--
MX-2002005989	A	20021023	2002MX-000005989	20020614 <--
ZA-2002005197	A	20031104	2002ZA-000005197	20020627 <--
NO-2002003516	A	20020723	2002NO-00003516	20020723 <--
BG-107023	A	20030430	2002BG-000107023	20020822 <--
HR-2002000696	A2	20031231	2002HR-000000696	20020823 <--
US-20060183762	A1	20060817	2002US-000182221	20021209 <--
US-7094780	B2	20060822		
US-20060287308	A1	20061221	2006US-000452121	20060613 <--
US-7582627	B2	20090901		
US-2006017852P	P	20060124	<--	
2000US-00241267P	P	20001018	<--	
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
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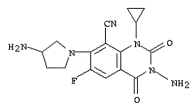


AB Title compds. (I) (wherein: R1 and R3 = independently H or (un)substituted (cyclo)alkyl, alkenyl, alkynyl, (hetero)aryl, or heterocyclic; independently R5, R6, and R8 = H or (un)substituted alkyl, alkenyl, alkynyl, or halo, NO2, CN, NH2, (di)alkylamino, etc.; or R1 and R8 taken

L33 ANSWER 4 OF 4 ZCAPLUS COPYRIGHT 2010 ACS on STN (Continued)  
 together with the atoms to which they are attached may form an  
 (un)substituted heterocycle; R7 = H or (un)substituted alkyl, alkenyl,  
 alkynyl, (fused) heterocyclic, or (fused) aryl, or halo, NO2, CN, NH2,  
 (di)alkylamino, carboxy, etc.; J and K = independently C or N; and  
 pharmaceutically acceptable salts thereof] were prep. as antibacterial  
 agents. For example, N'-[4-[5-(tert-butoxycarbonylaminoethyl)pyrrolidin-  
 1-yl]-2-cyclopropylamino-5-fluorobenzyl]hydrazinecarboxylic acid tert-Bu  
 ester (multi-step prep. given) was chlorinated with N-chlorosuccinimide,  
 cyclized with triphosgene in the presence of K2CO3, and deprotected using  
 HCl gas to afford II\*HCl. In antibacterial assays, II\*HCl  
 exhibited min. inhibitory concns. of 0.13-2.0 µg/mL against an  
 assortment of Gram neg. and Gram pos. organisms, as well as ciprofloxacin  
 resistant E. coli and S. aureus strains. In addn., II\*HCl inhibited  
 supercoiling activity of DNA gyrase with IC50 of 1.0 µM.  
 351360-04-8P  
 RU: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (intermediate; preparation of 3-aminoquinazoline-2,4-dione antibacterial  
 agents via multi-step syntheses involving cyclization of  
 benzoylhydrazinecarboxylates with phosgene)  
 RN 351360-04-8 ZCAPLUS  
 CN Carbamic acid, [1-[8-cyano-1-cyclopropyl-3-[(1,1,1-trimethyl-  
 ethoxy)carbonylamino]-6-fluoro-1,2,3,4-tetrahydro-2,4-dioxo-7-  
 quinazolinyl]-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX  
 NAME)



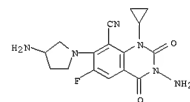
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 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of 3-aminoquinazoline-2,4-dione antibacterial agents via  
 multi-step syntheses involving cyclization of  
 benzoylhydrazinecarboxylates with phosgene)  
 RN 351362-03-3 ZCAPLUS  
 CN 8-Quinazolinecarboxitrile, 3-amino-7-(3-amino-1-pyrrolidinyl)-1-  
 cyclopropyl-6-fluoro-1,2,3,4-tetrahydro-2,4-dioxo-, hydrochloride (1:1)  
 (CA INDEX NAME)



●X HCl

RN 351371-54-5 ZCAPLUS  
 CN 8-Quinazolinecarboxitrile, 3-amino-7-(3-amino-1-pyrrolidinyl)-1-  
 cyclopropyl-6-fluoro-1,2,3,4-tetrahydro-2,4-dioxo- (CA INDEX NAME)

L33 ANSWER 4 OF 4 ZCAPLUS COPYRIGHT 2010 ACS on STN (Continued)



OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)  
 RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 10:22:15 ON 01 JUL 2010)

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